AMENDMENTS TO THE CLAIMS PURSUANT TO REVISED 37 CFR § 1.21

- 1-5. (Canceled)
- 6. (Presently Amended) A composition, comprising:
 - a) a three dimensional structure formed by a solid matrix having a porosity; and
 - b) a simulated body fluid contacting said structure, wherein said <u>simulated</u>
 body fluid comprises a man-made aqueous solution comprising calcium
 and phosphorous ions at concentrations in a range between 0.5 2.5
 times the concentration of said ions found in normal human plasma, and
 wherein said matrix comprises a mixture of;
 - i) at least one polymer, wherein said polymer is selected from the group consisting of poly(L-lactic acid), poly(D,L-lactic acid-co-glycolic acid (PLGA) and poly(methyl methacrylate); and
 - ii) at least one inorganic compound wherein said inorganic compound is selected from the group consisting of hydroxyapatite and calcium phosphate.
- 7. (Original) The composition of Claim 6, further comprising c) one or more living cells contacting said matrix.
- 8. (Original) The composition of Claim 6, wherein said one or more cells are selected from the group consisting of osteoblast, fibroblasts, and epithelial.
- 9. (Previously Amended) The composition of Claim 6, wherein said porosity is greater than approximately 85%.
- 10. (Previously Amended) The composition of Claim 6, wherein said porosity is greater than approximately 90%.

- 11. (Previously Amended) The composition of Claim 6, wherein said porosity is greater than approximately 95%.
- 12. (Original) The composition of Claim 6, wherein said matrix is biodegradable.
- 13. (Previously Amended) The composition of Claim 1, wherein said porosity is greater than approximately 80%.
- 14. (Previously Amended) The composition of Claim 6, wherein said porosity is greater than approximately 80%.
- 15. (Previously Added) A solid matrix having a porosity comprising a mixture of hydroxyapatite and at least one polymer in a ratio, wherein said polymer is selected from the group consisting of poly(L-lactic acid), poly(D,L-lactic acid-co-glycolide acid (PLGA), and poly(methyl methacrylate), wherein said ratio is between 90:10 and 10:90.
- 16. (Previously Added) The solid matrix of Claim 15, wherein said ratio is 70:30.
- 17. (Previously Added) The solid matrix of Claim 15, wherein said ratio is 30:70.
- 18. (Previously Added) The solid matrix of Claim 15, wherein said porosity is greater than approximately 80%.
- 19. (Previously Added) The solid matrix of Claim 15, wherein said porosity is greater than approximately 85%.
- 20. (Previously Added) The solid matrix of Claim 15, wherein said porosity is greater than approximately 90%.

- 21. (Previously Added) The solid matrix of Claim 15, wherein said porosity is greater than approximately 95%.
- 22. (Previously Added) The solid matrix of Claim 15, wherein said matrix is biodegradable.
- 23. (Previously Added) A mixture comprising poly(L-lactic acid), hydroxyapatite and a solvent, wherein said poly(L-lactic acid) and said hydroxyapatite are in a ratio of approximately 1:1 by weight.